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UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b))		Attorney Docket No. 520.38161CX3
		First Inventor ARUGA, KAZUHISA
		Title DISK SUBSYSTEM
		Express Mail Label No. 

APPLICATION ELEMENTS <i>SEE MPEP chapter 600 concerning utility patent application contents.</i>		ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450
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1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)

2. Applicant claims small entity status.
See 37 CFR 1.27.

3. Specification [Total Pages: 30]

-Descriptive title of the invention
-Cross Reference to Related Applications
-Statement Regarding Fed sponsored R & D
-Reference to sequence listing, a table, or a computer program listing appendix
-Background of the Invention
-Brief Summary of the Invention
-Brief Description of the Drawings (if filed)
-Detailed Description
-Claim(s)
-Abstract of the Disclosure

4. Drawing(s) (35 U.S.C. 113) [Total Pages: 2]

5. Oath or Declaration [Total Pages: 2]
a. Newly executed (original or copy)
b. Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)

i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
Named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b)

6. Application Data Sheet. See 37 CFR 1.76

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
a. Computer Readable Form (CRF)
b. Specification Sequence Listing on:
i. CD-ROM or CD-R (2 copies); or
ii. paper
c. Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS	
9. <input type="checkbox"/> Assignment Papers (cover sheet & documents(s))	10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of Attorney <i>(when there is an assignee)</i>
11. <input type="checkbox"/> English Translation Document (if applicable)	12. <input checked="" type="checkbox"/> Information Disclosure <input type="checkbox"/> Copies of IDS Citations Statement (IDS)/PTO-1449
13. <input type="checkbox"/> Preliminary Amendment	14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i>
15. <input type="checkbox"/> Certified Copy of Priority Document(s) <i>(if foreign priority is claimed)</i>	16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. <input checked="" type="checkbox"/> Other: Credit Card Payment Form & Letter Claiming Right of Priority	

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-in-part (CIP) of prior application No.: **10/337,397**

Prior application information: Examiner: _____ Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

<input checked="" type="checkbox"/> Customer Number	020457		OR <input type="checkbox"/> Correspondence address below	
Name	ANTONELLI, TERRY, STOUT & KRAUS, LLP			
Address				
City	State		Zip Code	
Country	Telephone	(703) 312-6600	Fax	(703) 312-6666
Name	Registration No. (Attorney/Agent)			29,621
Signature				Date August 4, 2003

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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16179
U.S. PTO
04/03

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FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT**

(\$ 2010)

Complete if Known	
Application Number	Not yet assigned
Filing Date	August 4, 2003
First Named Inventor	ARUGA, KAZUHISA
Examiner Name	
Art Unit	
Attorney Docket No.	520.38161CX3

METHOD OF PAYMENT (check all that apply) Check Credit Card Money Order Other None Deposit Account:

Deposit Account Number 01-2135

Deposit Account Name Antonelli, Terry, Stout & Kraus, LLP

The Commissioner authorized to: (check all that apply)

 Charge fees indicated below Credit any overpayments Charge any additional fee(s) during the pendency of this application Charge fees indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION** (continued)**3. ADDITIONAL FEES**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
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1051	130	2051	65 Surcharge – late filing fee or oath
1052	50	2052	25 Surcharge – late provisional filing fee or cover sheet
1053	130	1053	130 Non-English specification
1812	2,520	1812	2,520 For filing a request for <i>ex parte</i> reexamination
1804	920*	1804	920* Requesting publication of SIR prior to Examination action
1805	1,840*	1805	1,840* Requesting publication of SIR after Examiner action

FEE CALCULATION**1. BASIC FILING FEE**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001	750	2001 375 Utility filing fee	750
1002	330	2002 165 Design filing fee	
1003	520	2003 260 Plant filing fee	
1004	750	2004 375 Reissue filing fee	
1005	160	2005 80 Provisional filing fee	
SUBTOTAL (1)			750

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	-20** =	x 18	=	Fee from below	Fee Paid
90	-20** = 70	x 18	= 1260		
Indep. Claims	2 -3** =	x 84	=		
Multiple Dependent			=		

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202	18	2202 9 Claims in excess of 20
1201	84	2201 42 Independent claims in excess of 3
1203	280	2203 140 Multiple dependent claim, if not paid
1204	84	2204 42 ** Reissue independent claims over original patent
1205	18	2205 9 ** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2) \$ 1260		

**or number previously paid, if greater; For Reissues, see above.

Fee Description	Fee Paid
1251	110 2251 Extension for reply within first month
1252	410 2252 Extension for reply within second month
1253	930 2253 Extension for reply within third month
1254	1,450 2254 Extension for reply within fourth month
1255	1,970 2255 Extension for reply within fifth month
1401	320 2401 Notice of Appeal
1402	320 2402 Filing a brief in support of an appeal
1403	280 2403 Request for oral hearing
1451	1,510 1451 Petition to institute a public use proceeding
1452	110 2452 Petition to revive – unavoidable
1453	1,300 2453 Petition to revive – unintentional
1501	1,300 2501 Utility issue fee (or reissue)
1502	470 2502 Design issue fee
1503	630 2503 Plant issue fee
1406	130 1460 Petitions to the Commissioner
1807	50 1807 Processing fee under 37 CFR 1.17(q)
1806	180 1806 Submission of Information Disclosure Stmt
8021	40 8021 Recording each patent assignment per property (times number of properties)
1809	750 2809 Filing a submission after final rejection (37 CFR § 1.129(a))
1810	750 2810 For each additional invention to be examined (37 CFR § 1.129(b))
1801	750 2801 Request for Continued Examination (RCE)
1802	900 1802 Request for expedited examination of a design application
Other fee (specify) _____	

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

Complete (if applicable)

SUBMITTED BY	Name (Print/Type)	Registration No. (Attorney/Agent)	Telephone	Date
	Carl I. Brundidge	29,621	703 312-6600	
Signature				08/04/2003

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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